

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph [0033] beginning on page 10, line 13 as follows:

[0033]

1, 30, 40, 50, 60, 70, 80, 90, 100: floor surface finishing device

2, 2a: floor surface to be finished

3, 63: motor

4: rotary blade

5, 165: plane leveling machine

6, 20a, ~~20b~~ 20c, 26j, 36, 46: connecting member

6a, 36a, 46a, 56a, 62, 88: vertical shaft

6b: mounting member

6c: mounting hole

6d, 56b, 79: horizontal shaft

6e: supporting member

6f, 26f, 36f, 46f, 56f, 65, 74, 83, 96f, 106f: elevating arm

6g: mounting pin

6h: mounting hole

6i, 26i: attaching member

7: plane of rotation

8, 8a, 8b, 8c, 28, 68, 75, 84: finishing blade

8d, 92b: mounting member

8e, 46b, 46c: auxiliary member

9, H: operating handle

10: support

11: hook

12, 12a, 12b, 12c, 22: fixing member

12d: fixing portion

12e, 20d: connecting portion

13, 13a, 23: screw

14: horizontal bar

15: plumb bob

16, 30a, 30b, 30c, 30d, 40a, 40b, 40c, 40d, 50a, 50b, 50c, 50d, 67, 69, 76, 77, 86, 87:
pulley
17, 37, 47, 57a, 57b, 66, 78, 85, 97a, 107: wire
18, 31, 41, 51a, 91a: elevating lever
19: wire guide
19a: guide hole
20: link mechanism
~~20a, 20e: link mechanism~~
20b: hinge portion
~~20e: pin, 26e, 26k: connecting hole~~
21: shaft body
26a: reinforcing member
26b, 26c, 26m: tubular body
36b, 73: tubular member
46g, 56g, 56c, 64, 82, 93, 96g, 106g: shaft
46i, 81: slanting shaft
46h: stopper
56d: auxiliary elevating arm
61: hoist
51b, 91b: auxiliary elevating lever
92a: angle adjusting lever
101: switch
A, B, D1, D2: arrow
C: pivotal center
L: length
S: seat
T: thickness
W: width
 θ : angle of attack

Please amend the paragraph [0041] beginning on page 15, line 17 as follows:

[0041] By the above operation conducted by an operator, the floor surface to be finished 2 is leveled with pressure by the rotary blades 8, followed by a final finishing by the finishing blade 8. At this time, the finishing blade 8 4 is arranged so that an area close to one of the longitudinal sides of the finishing blade 8 is brought into contact with a floor surface to be finished 2a immediately after the rotary blades 4 have come into contact with and passed over the floor surface to be finished 2a. Accordingly, the floor surface to be finished 2a leveled with pressure by the rotary blades 4 can be subject to a final finishing.

Please amend the paragraph [0047] beginning on page 17, line 25 as follows:

[0047] Furthermore, the plumb bob 15 for pressing the finishing blade 8 against the floor surface to be finished 2a increases pressing force of the finishing blade 8 onto the floor surface to be finished 2a. Therefore, an excellent finishing effect on the floor surface to be finished 2a can be obtained to improve the condition after final finishing. In addition, since the plumb bob 15 can be detached from the horizontal bar 14, the weight of the plumb bob 15 can be changed by varying the volume, number or material thereof. A suitable final finishing operation can be conducted in this manner in accordance with the type, property or curing condition of a floor surface material such as concrete or mortar.

Please amend the paragraph [0048] beginning on page 17, line 16 as follows:

[0048] As described above, the finishing blade 8, which is horizontally rotatable centering around the hook 11, can be horizontally rotated around the rotary blades 4 and held at an optional position. Therefore, it is possible to change a positional relation between an operator (not shown) standing near an end portion of the operating handle 9 to manipulate the floor surface finishing device 1, the rotary blades 4, and the finishing blade 8. Thus, in addition to a basic use for conducting a floor finishing operation shown in Fig. 1 in which an operator (not shown) moves the floor surface finishing device 1 by pulling it in the direction of the arrow A, a floor surface finishing operation can also be conducted with the finishing blade 8 disposed on either right or left side of the rotary blades 4 8 as shown in Fig. 2.

Please amend the paragraph [0054] beginning on page 20, line 11 as follows:

[0054] Next, with reference to Figs. 5 to 9, other embodiments of a finishing blade will be explained below. A finishing blade 8a shown in Fig. 5 is formed of a flexible elastic plate as in the above-described finishing blade 8 and has a substantially rectangular shape with all of the four corners made round. On a top surface of the finishing blade 8a, disposed is a fixing member 12a having a L-shaped section, and an auxiliary member 8e is disposed on a bottom surface of the finishing blade 8a, into which a plurality of screws 13a are screwed from a bottom side. Thus, the fixing member 12a and the finishing blade 8a are fixed. The finishing blade 8a, as in the finishing blade 8, can be attached to the floor surface finishing device 1 shown in Figs. 2 and 3 in use. In this case, the fixing member 12a located on the top surface of the finishing blade 8a is fixed to a mounting member 6i on the distal end of the elevating arm 6f of the floor surface finishing device 1 shown in Figs. 2 and 3 via a screw (not shown) in use. Since the finishing blade 8a is fixed to the fixing member 12a with the auxiliary member 8e 8b and the screws 13a provided on the bottom surface of the fixing member 12a, the secure fixing state is further improved and the fixing blade 8a has a strong resistance against deformation.

Please amend the paragraph [0058] beginning on page 22, line 11 as follows:

[0058] Between a vicinity of a center of the upper edge of the mounting member 26i and a vicinity of the distal end of the elevating arm 26f, provided is a link mechanism 20 which comprises two connecting members 20a and 20c connected to each other by a hinge portion 20b. An end portion of the connecting member 20a is firmly fixed to the upper edge of the mounting member 26i. A connecting hole 26e of a U-shaped connecting portion 20d firmly attached to an end portion of the connecting member 20c is brought to correspond with one of a plurality of connecting holes 26k which are opened on a connecting member 26j firmly fixed to a vicinity of the distal end of the elevating arm 26f. Then, a pin 20e is inserted into the connecting holes 26e and 26k 20e so that the mounting member 26i along with the finishing blade 28 and the other members are fixed to the elevating arm 26f.

Please amend the paragraph [0059] beginning on page 22, line 22 as follows:

[0059] In this case, depending on the hole among the plurality of connecting holes 26k on the connecting member 26j selected to correspond with the connecting hole 26e of the connecting

portion 20d 26d on the end portion of the connecting member 20c, an angle of the mounting member 26i mounted to the elevating arm 26f can be set. Thus, an angle of attack θ of the finishing blade 28 to the floor surface to be finished 2a can be selectively set, thereby obtaining the optimal angle of attack θ for each operating condition.

Please amend the paragraph [0062] beginning on page 23, line 21 as follows:

[0062] When the elevating lever 31 is tilted, the wire 37 is let in and out, thereby sliding the elevating arm 36f upward and downward along a longitudinal direction of the tubular member 36b. In this manner, a finishing blade 8 can come into contact with or separate from a floor surface to be finished 2a. In the case of the floor surface finishing device 30, an elevating mechanism for the finishing blade 8 can be formed of the tubular member 36b and the elevating arm 36f, which simplifies structure of the device.

Please amend the paragraph [0064] beginning on page 24, line 16 as follows:

[0064] When the elevating lever 41 is tilted, the wire 47 is let in and out, thereby rotating the elevating arm 46f centering around the shaft 46g in a predetermined angle. In this manner, a finishing blade 8 can come into contact with or separate from a floor surface to be finished 2a. In the case of the floor surface finishing device 40, the finishing blade 8 can be lifted and lowered by rotation of the elevating arm 46f which is relatively short. Thus, the elevating mechanism can be made compact. In addition, when the elevating arm 46f is lifted up to be nearly vertical by largely tilting the elevating lever 41, the finishing blade 8 as well as a plumb bob 15 can be housed on a side of the plane leveling machine 5. In this case, the plumb bob 15 approaches a center of gravity of the plane leveling machine 5, which prevents decline of operability when only the function of the plane leveling machine 5 is used for operation.

Please amend the paragraph [0066] beginning on page 25, line 13 as follows:

[0066] A wire 57a with its distal end portion fixed on a top surface of the distal end portion of the auxiliary elevating arm 56d extends through the pulley 50c and the pulley 50d and is fixed to the pulley 50c. A wire 57b with its distal end portion fixed on a bottom surface of the auxiliary elevating arm 56d extends through the pulley 50a and the pulley 50b and is fixed to an auxiliary elevating lever 51b.

Please amend the paragraph [0067] beginning on page 25, line 19 as follows:

[0067] When the elevating lever 51a is tilted, the wire 57a is let in and out, thereby rotating the auxiliary elevating arm 56d centering around the shaft 56c. At this time, the elevating arm 56f rotates centering around the shaft 56g in a relatively large motion via the wire 57b in a state of being stretched between the pulleys 50a and 50b. Therefore, a finishing blade 8, a plumb bob 15 and other members can be lifted and lowered within a relatively wide range of height. On the other hand, when the auxiliary elevating lever 51b is tilted, the wire 57b is let in and out, thereby rotating the elevating arm 56f centering around the shaft 56g within a relatively narrow range so that the finishing blade 8 can come into contact with and separate from a floor surface to be finished 2a.

Please amend the paragraph [0071] beginning on page 27, line 8 as follows:

[0071] While rotating the rotary blades 4 of the plane leveling machine 165, with a part of the finishing blade 68 coming into contact with a floor surface to be finished 2a, an operator sitting on the seat S moves the floor surface finishing device 60 forward (toward a left side in Fig. 13), thereby conducting a floor surface finishing operation by a similar action to that of the above-described floor surface finishing device 1. As the operator can conduct the operation while sitting on the seat S, his/her physical load can be alleviated. Furthermore, the finishing blade 68 can be lifted and lowered by activating the electrically-driven hoist 61 with a predetermined operating switch (not shown), which improves operability. In addition, the floor surface finishing device 60 is provided with the finishing blade 68 which has a larger longitudinal size compared to the above-described floor surface finishing device 1, enabling a finishing operation over a large area of the floor surface to be finished 2a, which considerably promotes efficiency of the operation.

Please amend the paragraph [0073] beginning on page 28, line 9 as follows:

[0073] Next, in the floor surface finishing device 80 shown in Fig. 16, an elevating arm 83 is rotatably pivoted on a shaft 82 provided on a distal end of a slanted shaft 81 which is fixed slantwise to a vertical shaft 88 standing on a rear portion of the plane leveling machine 165. A finishing blade 84 is attached to a distal end portion of the elevating arm 83. A pulley 87 is disposed at a portion close to the distal end portion of the elevating arm 83, and a pulley 86 is

disposed at an upper end portion of the vertical shaft 88. A wire 85 with its distal end portion fixed on the vertical shaft ~~88~~⁸⁶ extends through the pulley 87 and the pulley 86 and is mounted on a hoist 61 which is electrically driven. The floor surface finishing device 80 exhibits the effect similar to that of the above-described floor surface finishing device 60.

Please amend the paragraph [0077] beginning on page 29, line 19 as follows:

[0077] In the floor surface finishing device 90 shown in Fig. 17, by tilting an elevating lever ~~91a~~^{91b}, an elevating arm 96f is rotated within a relatively small range centering around a shaft 96g via a wire 97a, thereby lifting and lowering a finishing blade 8. By tilting an auxiliary elevating lever ~~91b~~^{91a}, the elevating arm 96f is rotated within a relatively large range centering around the shaft 96g. Thus, as shown in an imaginary line in Fig. 17, the finishing blade 8 can be lifted in a nearly vertical position and housed on a side of a plane leveling machine 5. At this time, a plumb bob 15 is also positioned closely to a center of gravity of the plane leveling machine 5, which prevents decline of operability when only the function of the plane leveling machine 5 is used for a floor leveling operation.

Please amend the paragraph [0079] beginning on page 30, line 10 as follows:

[0079] Next, in the floor surface finishing device 100 shown in Fig. 18, when an operator manipulates a switch 101 disposed on an operating handle 9, an electrically-driven hoist 61 disposed on a support 10 of a plane leveling machine 5 is activated to wind up or reel out a wire 107. In this manner, an elevating arm 106f rotates centering around a shaft 106g, thereby lifting and lowering a finishing blade 8 and a plumb bob 15. An operator can move the finishing blade 8 up and down simply by manipulating the switch 101 at his/her hands, which leads to good operability and reduced physical load. The position where the electrically-driven hoist 61 is installed is not limited only to the position on the support 10 but can be appropriately selected depending on using conditions and operating situations.